

FIG. 1

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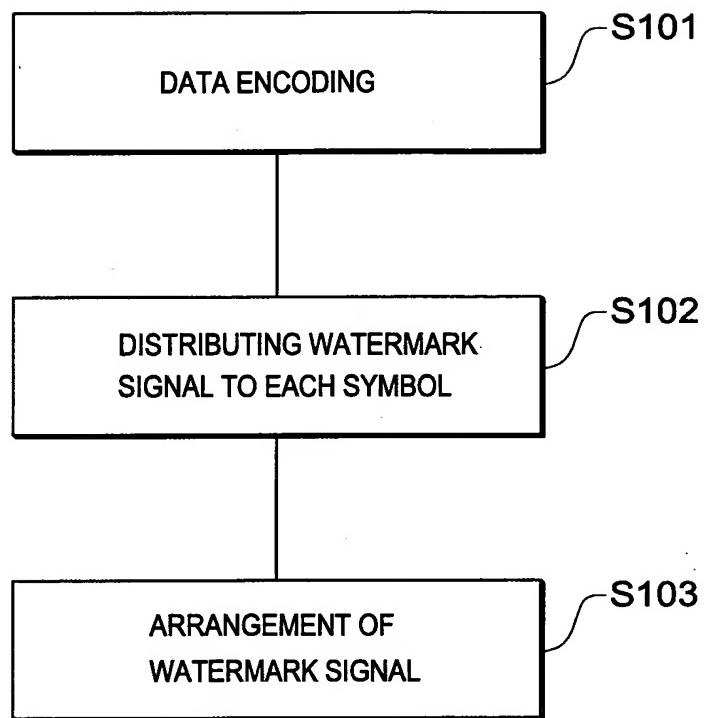


FIG. 2

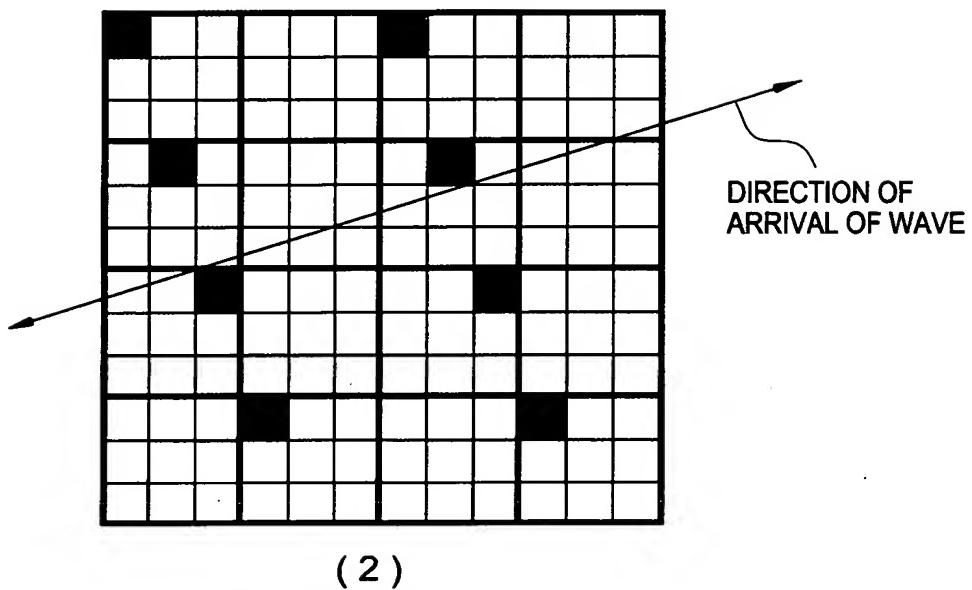
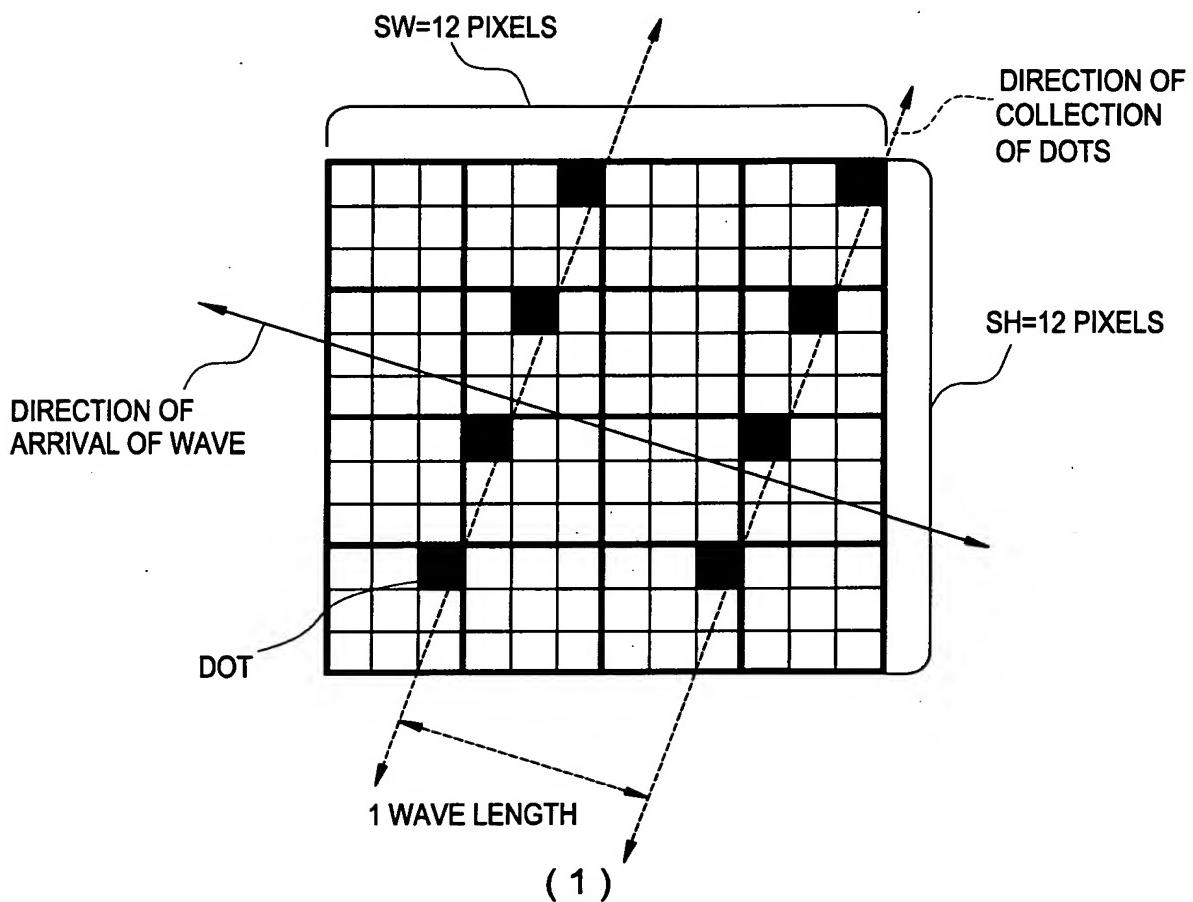


FIG. 3

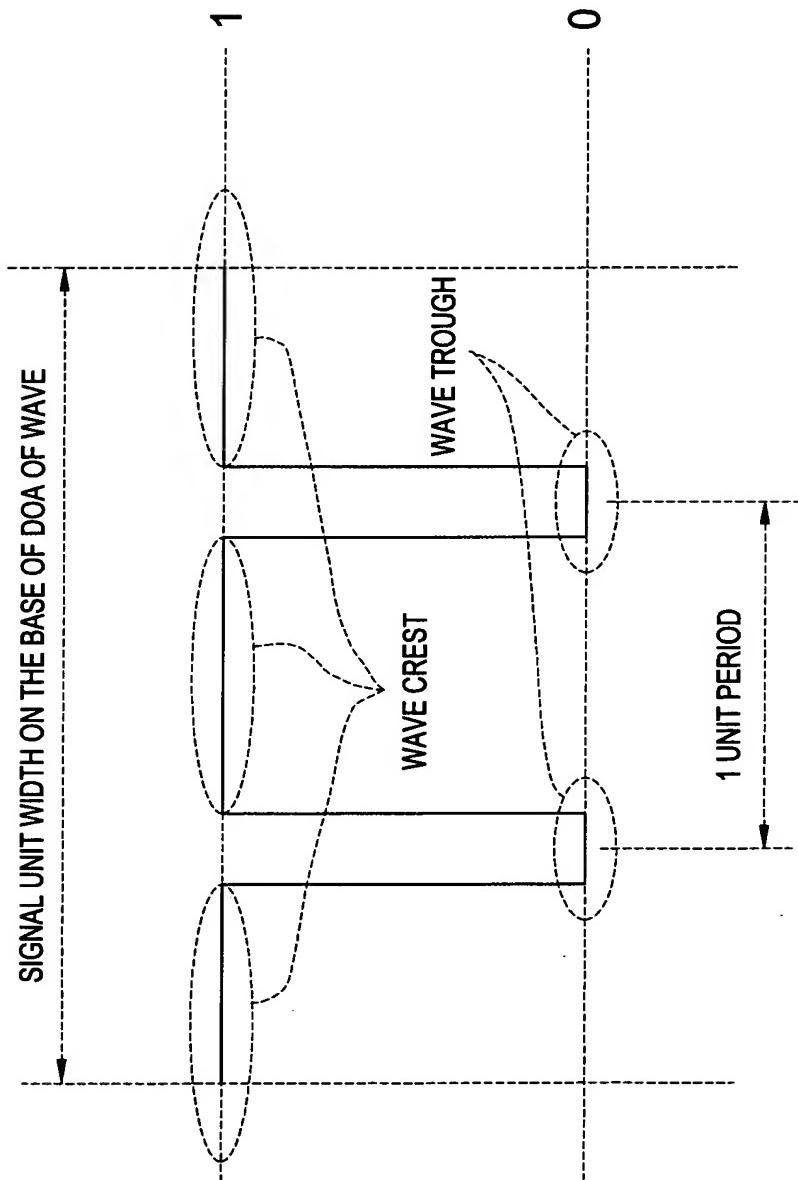


FIG. 4

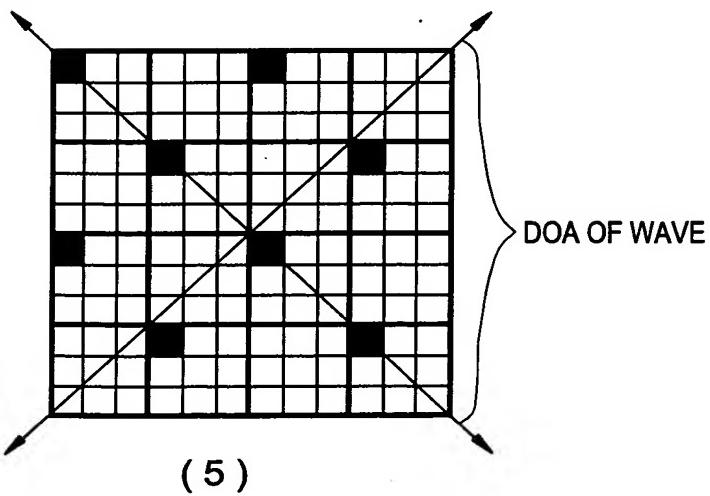
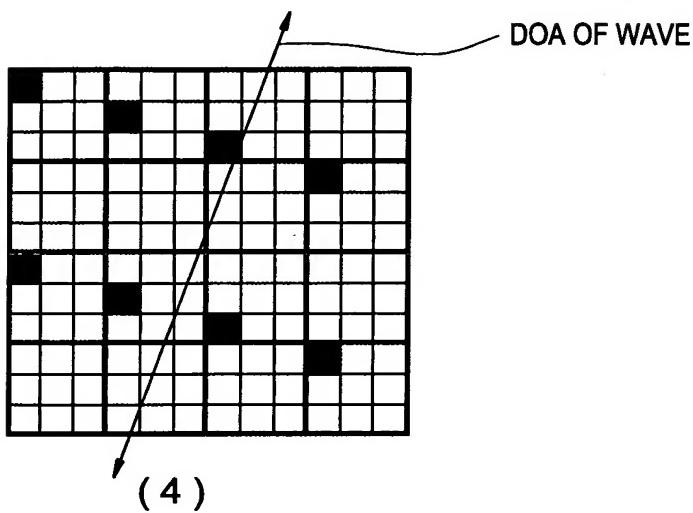
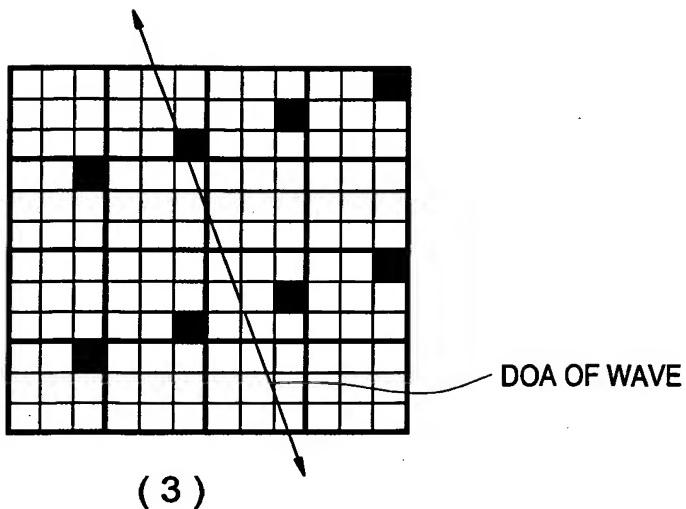
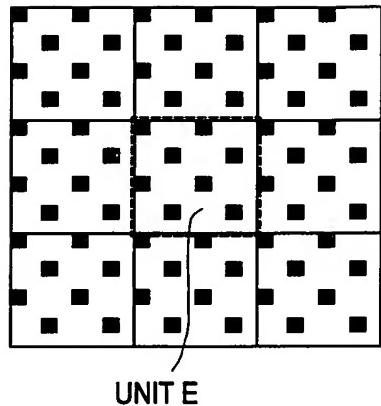
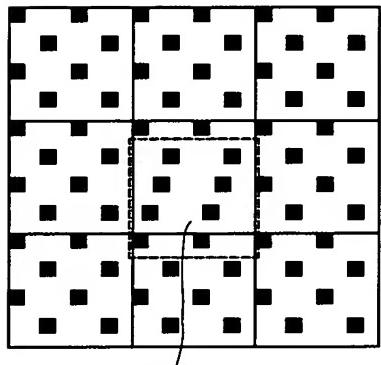


FIG. 5

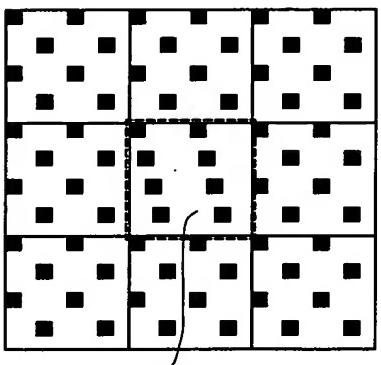
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UNIT E



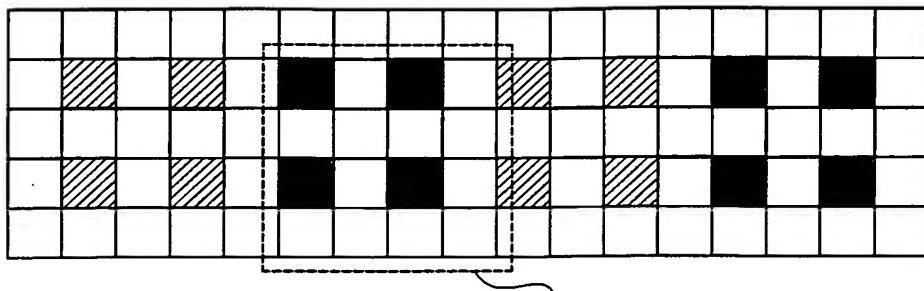
UNIT A



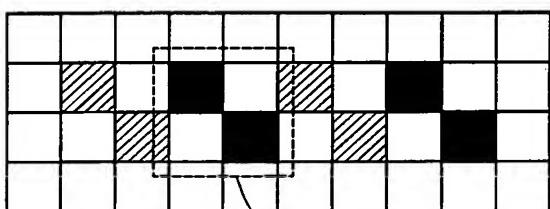
UNIT B

FIG. 6

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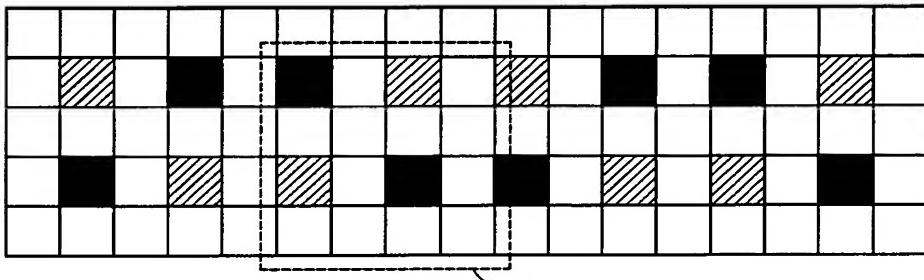
(1) UNIT IMAGE



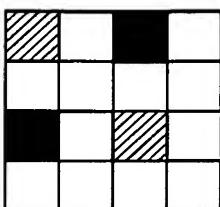
UNIT IMAGE

- UNIT A (SYMBOL 0)
- UNIT B (SYMBOL 1)
- UNIT E (WITHOUT SYMBOL)

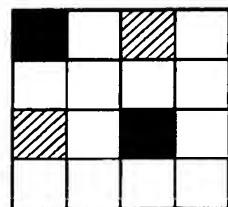
(2)



UNIT IMAGE



UNIT IMAGE OF
SYMBOL 0



UNIT IMAGE OF
SYMBOL 1

(3)

FIG. 7

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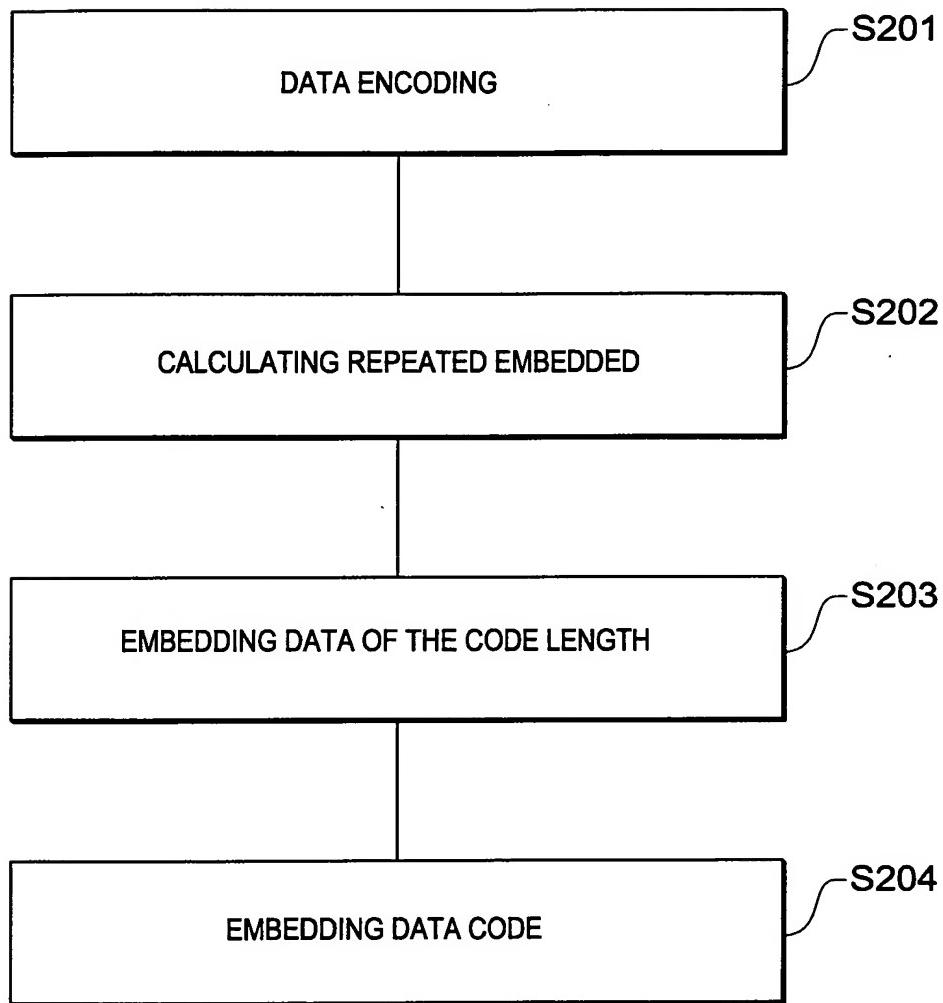


FIG. 8

UNIT IMAGE REPRESENTATION BEING EMBEDDED
 THE CODE LENGTH'S BIT ARRAY THEREIN

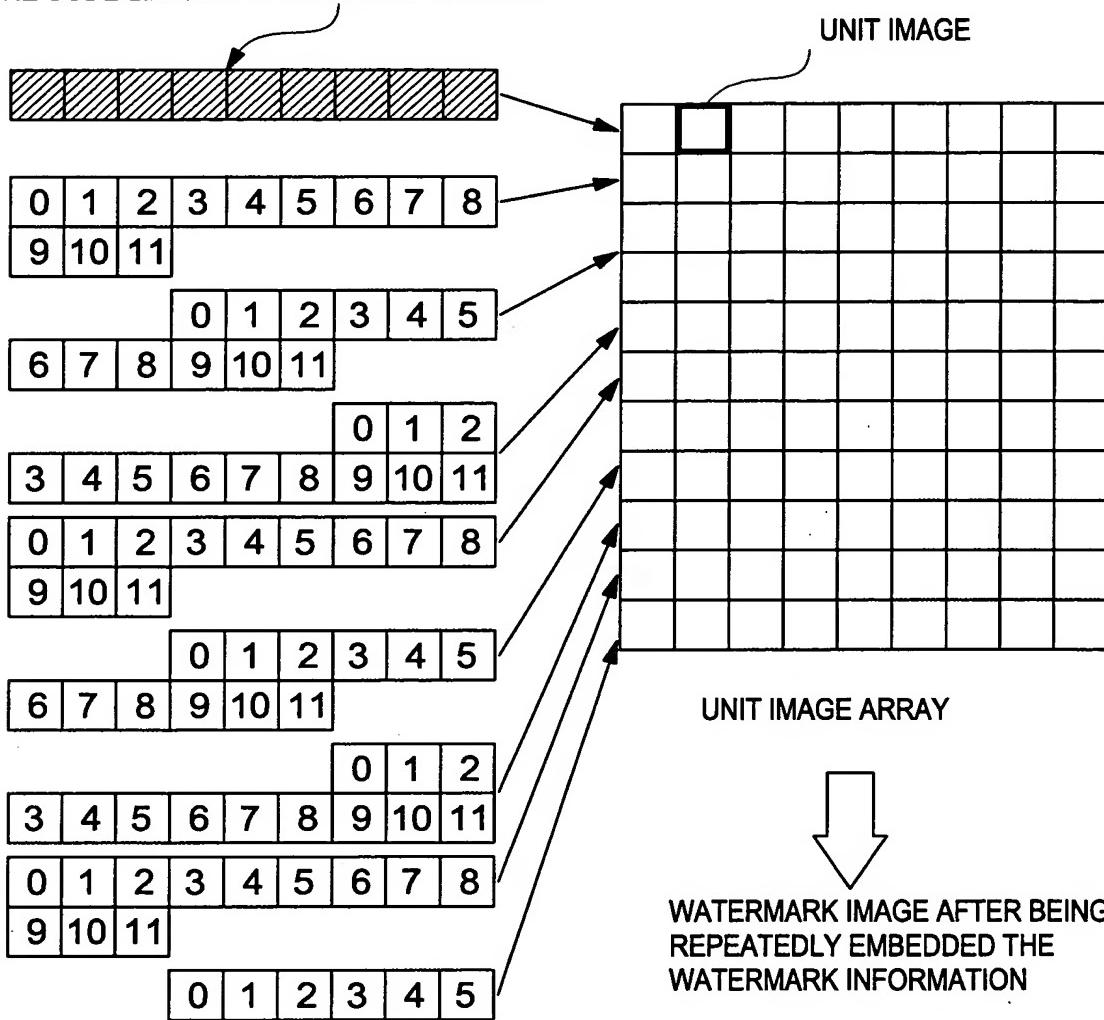


FIG. 9

0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5
6	7	8	9	10	11	0	1	2
3	4	5	6	7	8	9	10	11
0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5
6	7	8	9	10	11	0	1	2
3	4	5	6	7	8	9	10	11
0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5

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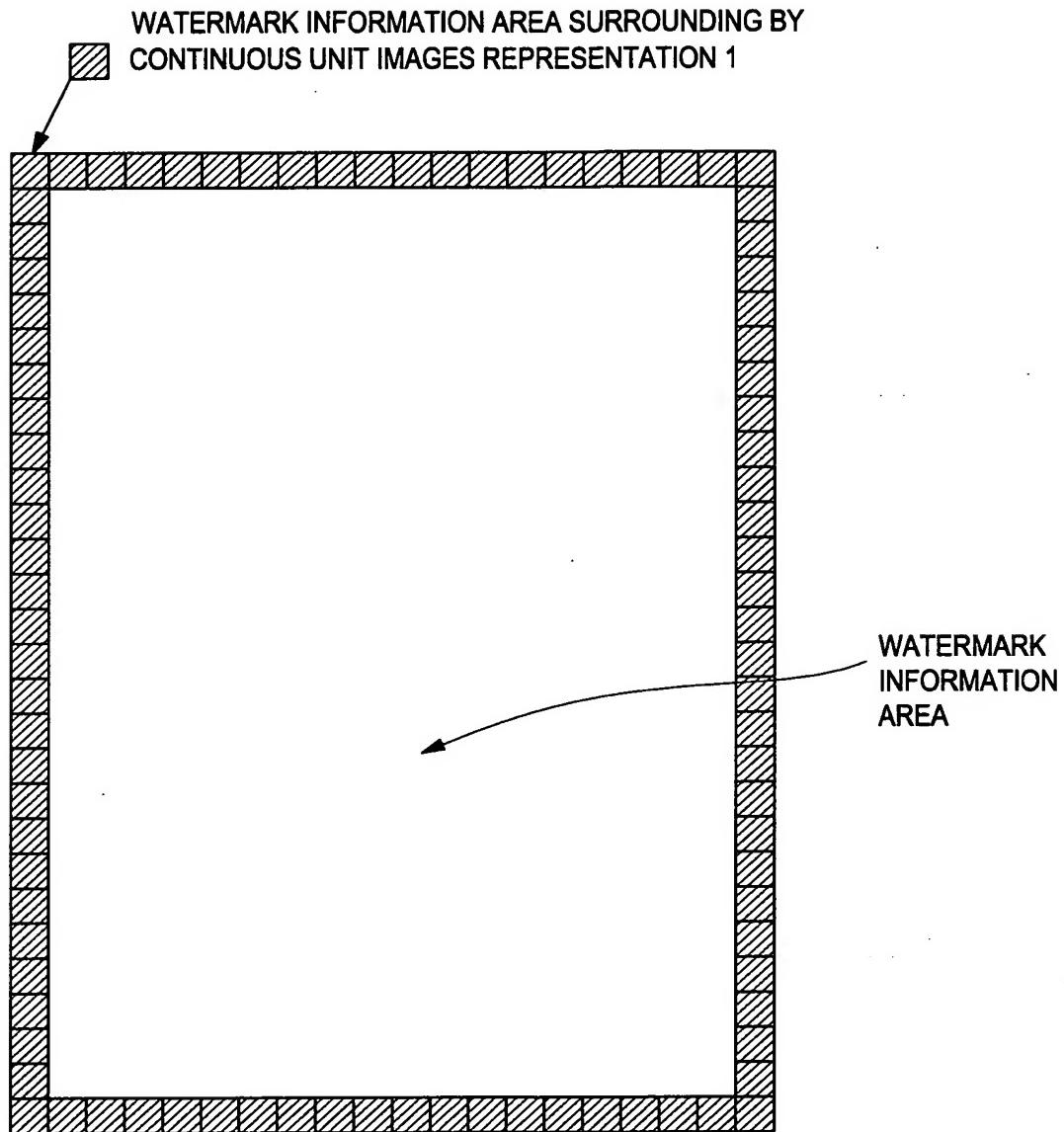


FIG. 10

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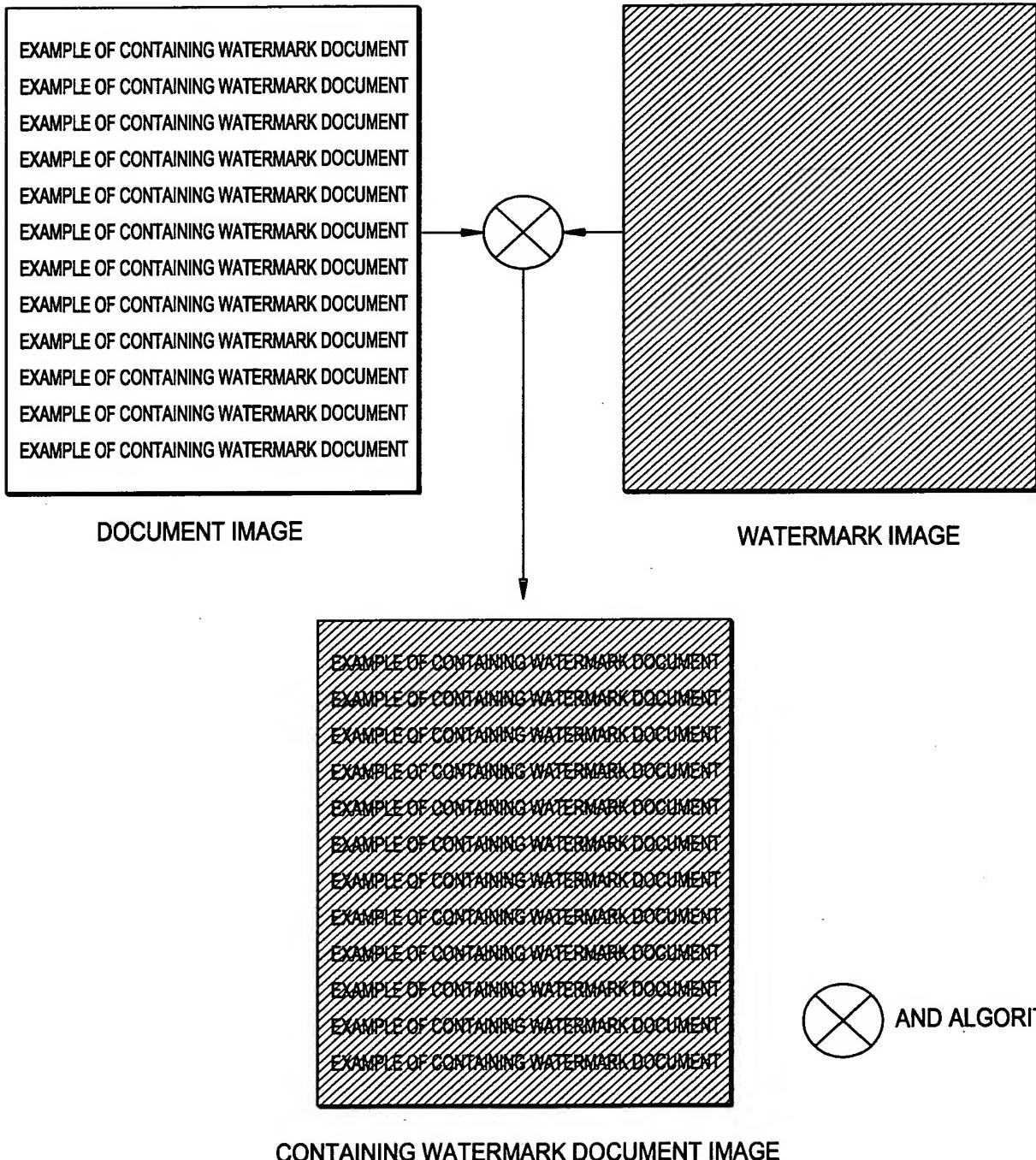


FIG. 11

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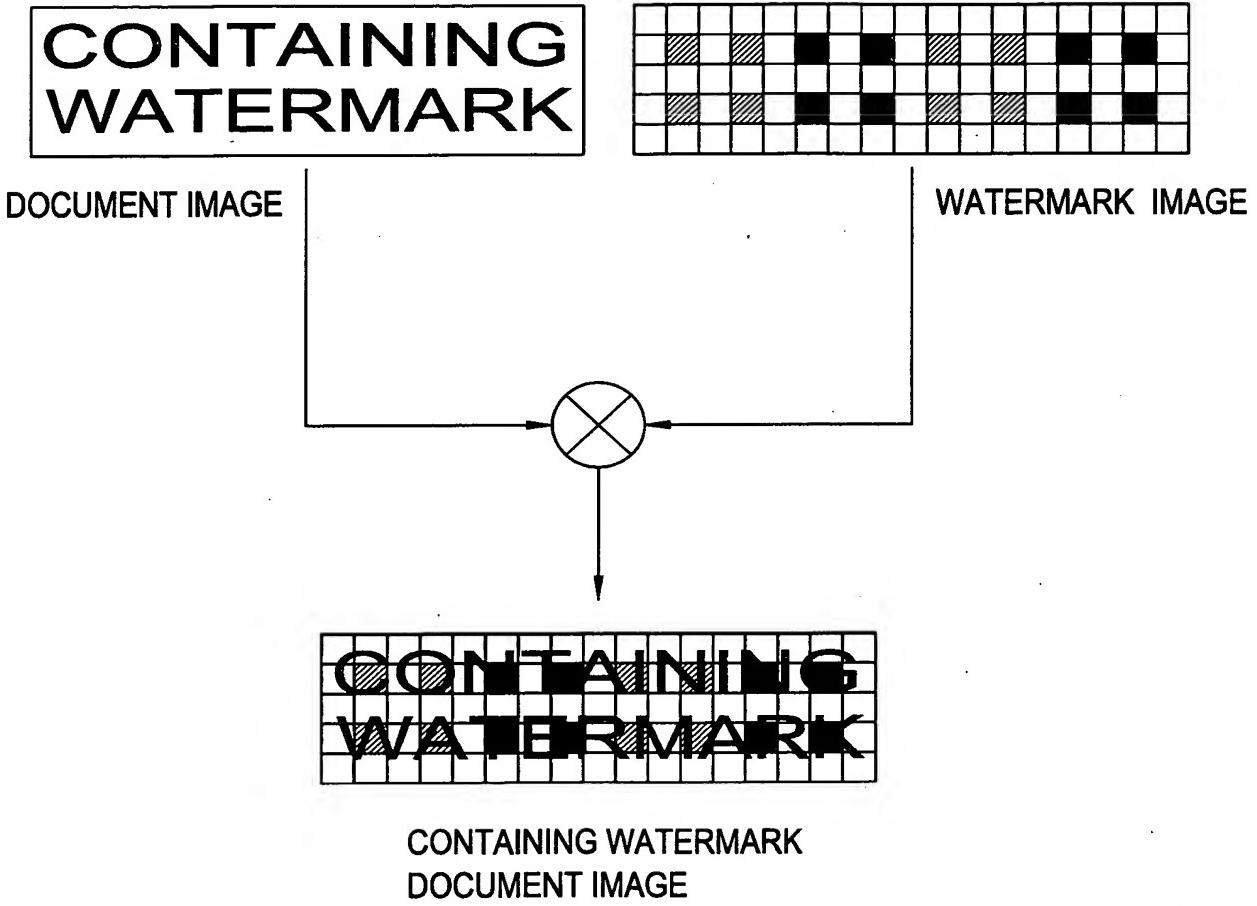


FIG. 12

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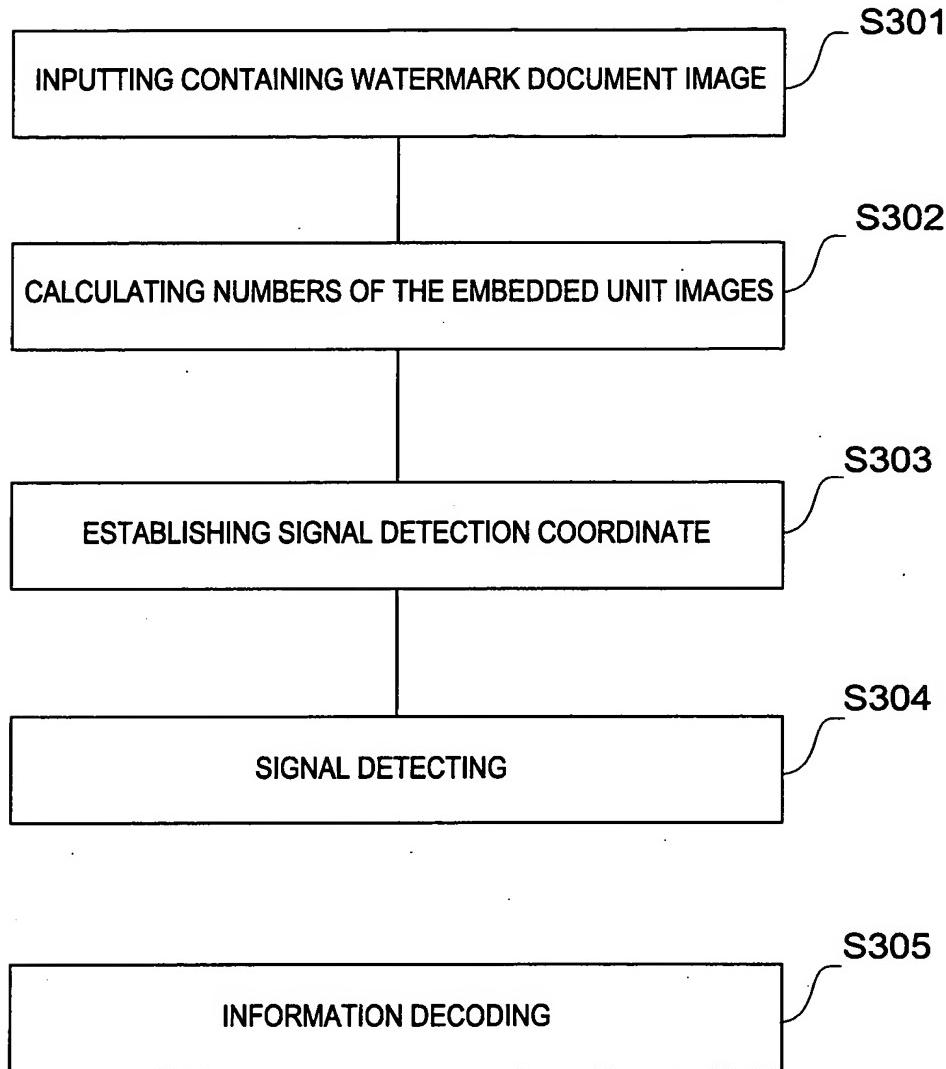
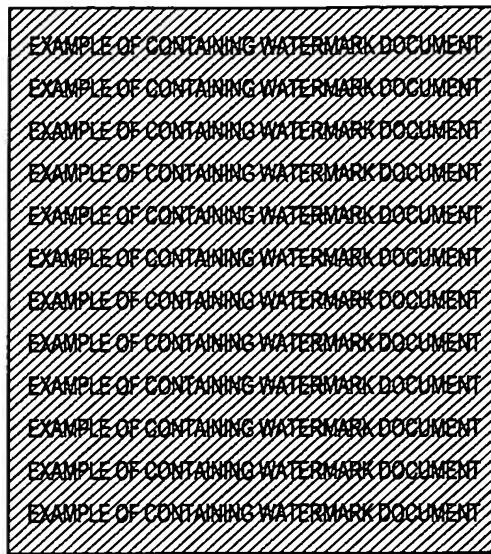


FIG.13

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(1)



(2)

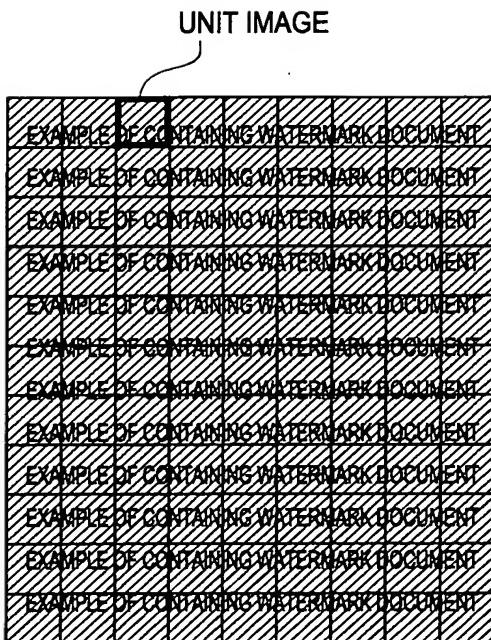


FIG. 14

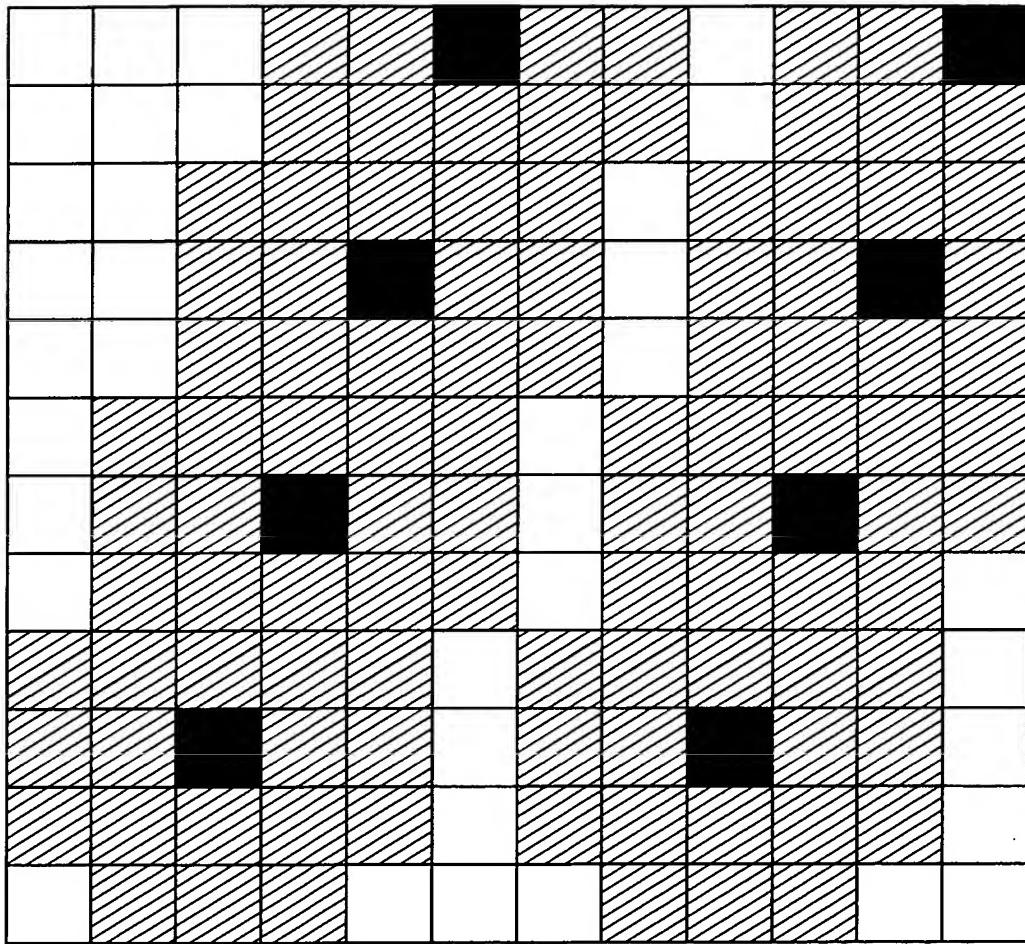


FIG. 15

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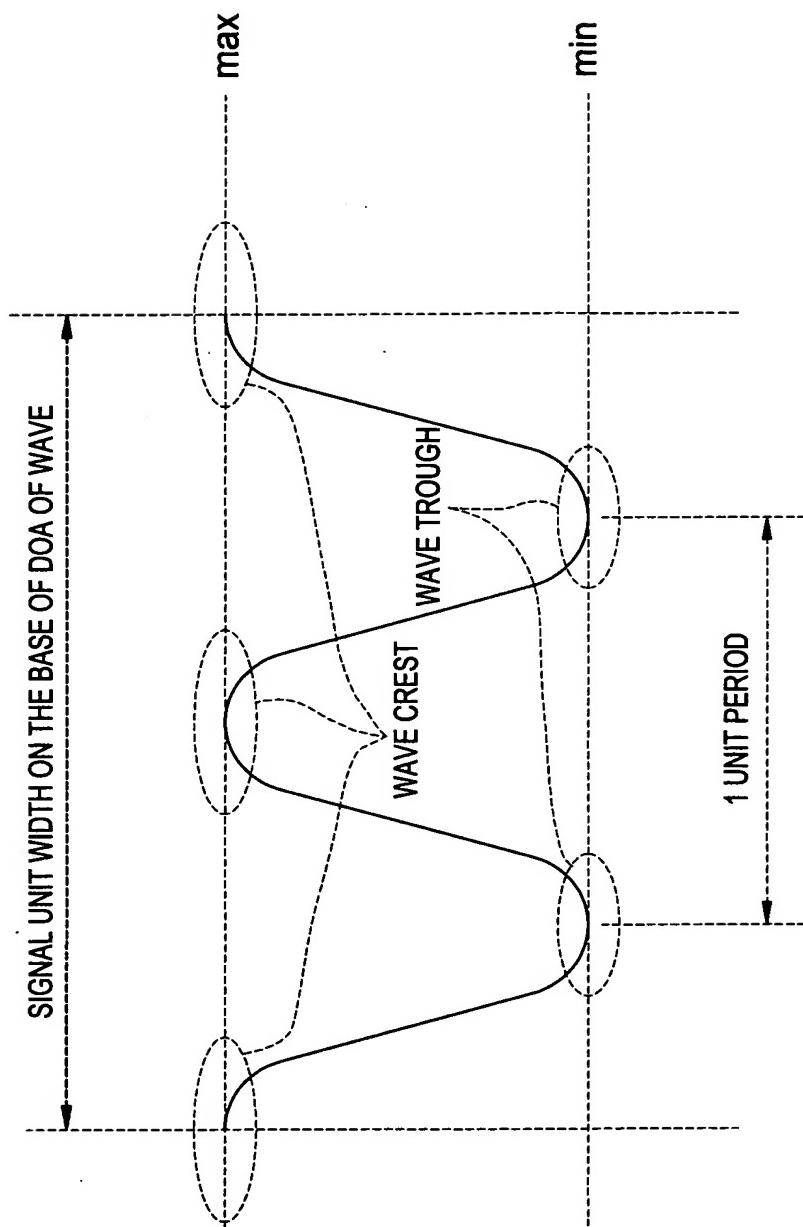
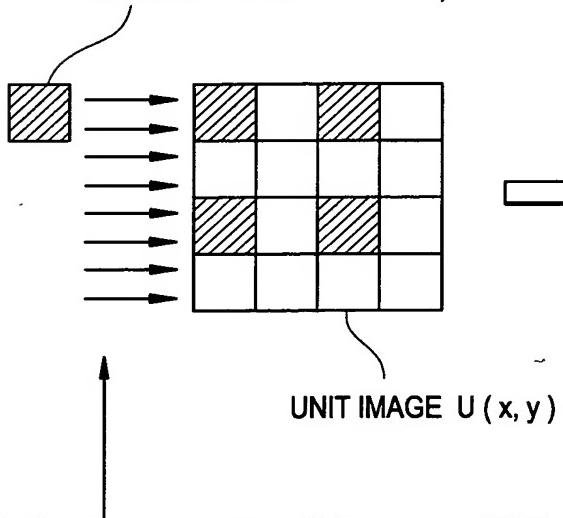


FIG. 16

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FILTER A (REAL NUMBER FILTER AND
IMAGINARY NUMBER FILTER)



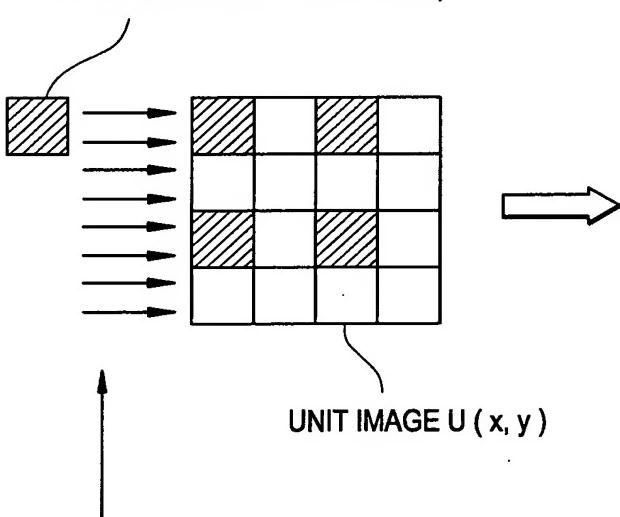
THE MAXIMAL VALUE OF $F(A)$ IS
TAKEN AS AN OUTPUT VALUE OF THE
UNIT IMAGE FROM THE FILTER A AND
DENOTED WITH $F_u(A, x, y)$

SCROLLING ALONG HORIZONTAL AND
VERTICAL DIRECTIONS, AND WORKING
OUT THE CONVOLUTION



COMPARING $F_u(A, x, y)$ WITH $F_u(B, x, y)$, DISCRIMINATING WHICHEVER
IS GREATER, THE GREATER VALUE OF
THE UNIT IMAGE IS EMBEDDED

FILTER B (REAL NUMBER FILTER AND
IMAGINARY NUMBER FILTER)



THE MAXIMAL VALUE OF $F(B)$ IS
TAKEN AS AN OUTPUT VALUE OF THE
UNIT IMAGE FROM THE FILTER B AND
DENOTED WITH $F_u(B, x, y)$

SCROLLING ALONG HORIZONTAL AND
VERTICAL DIRECTIONS, AND WORKING
OUT THE CONVOLUTION



FIG. 17

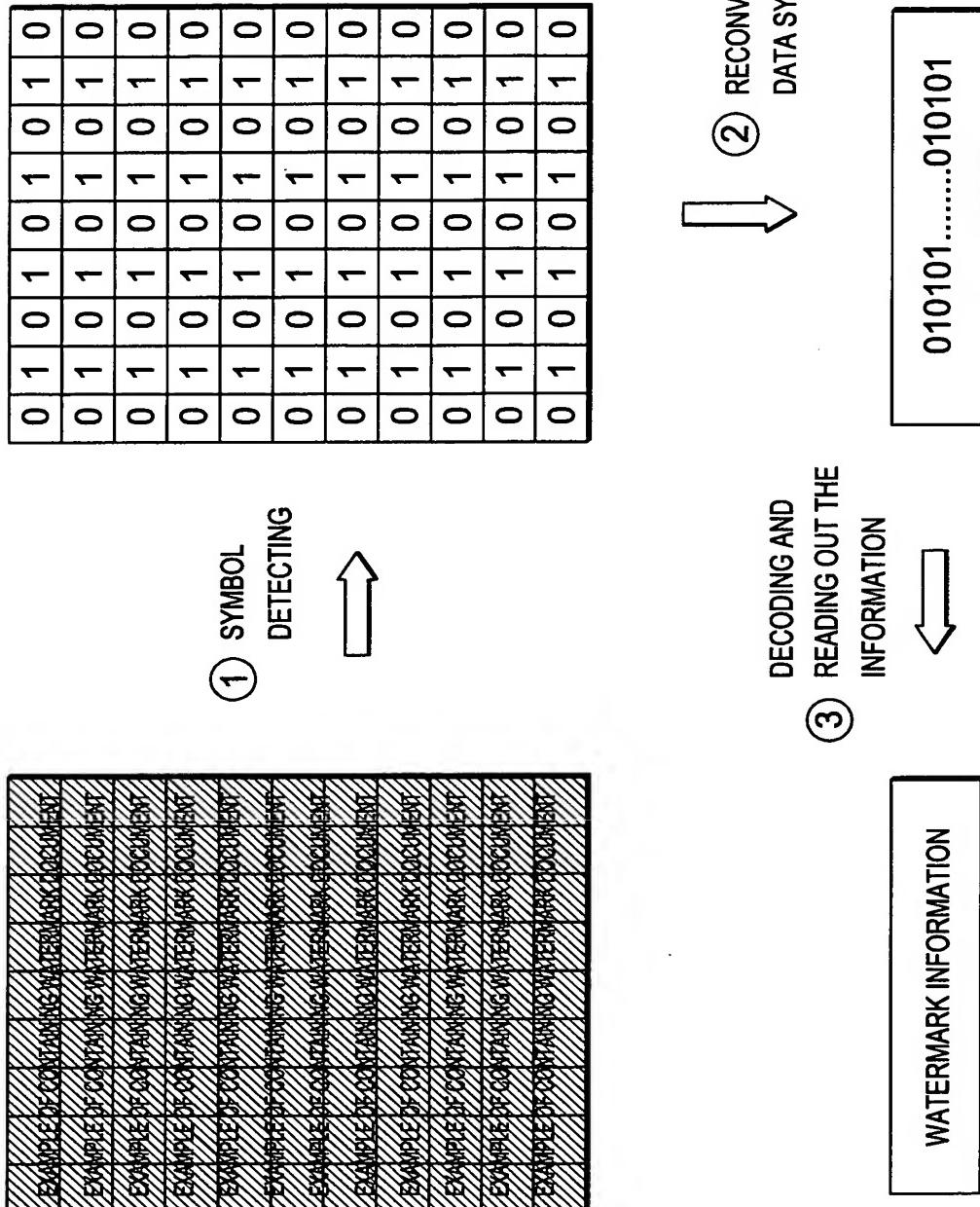


FIG. 18

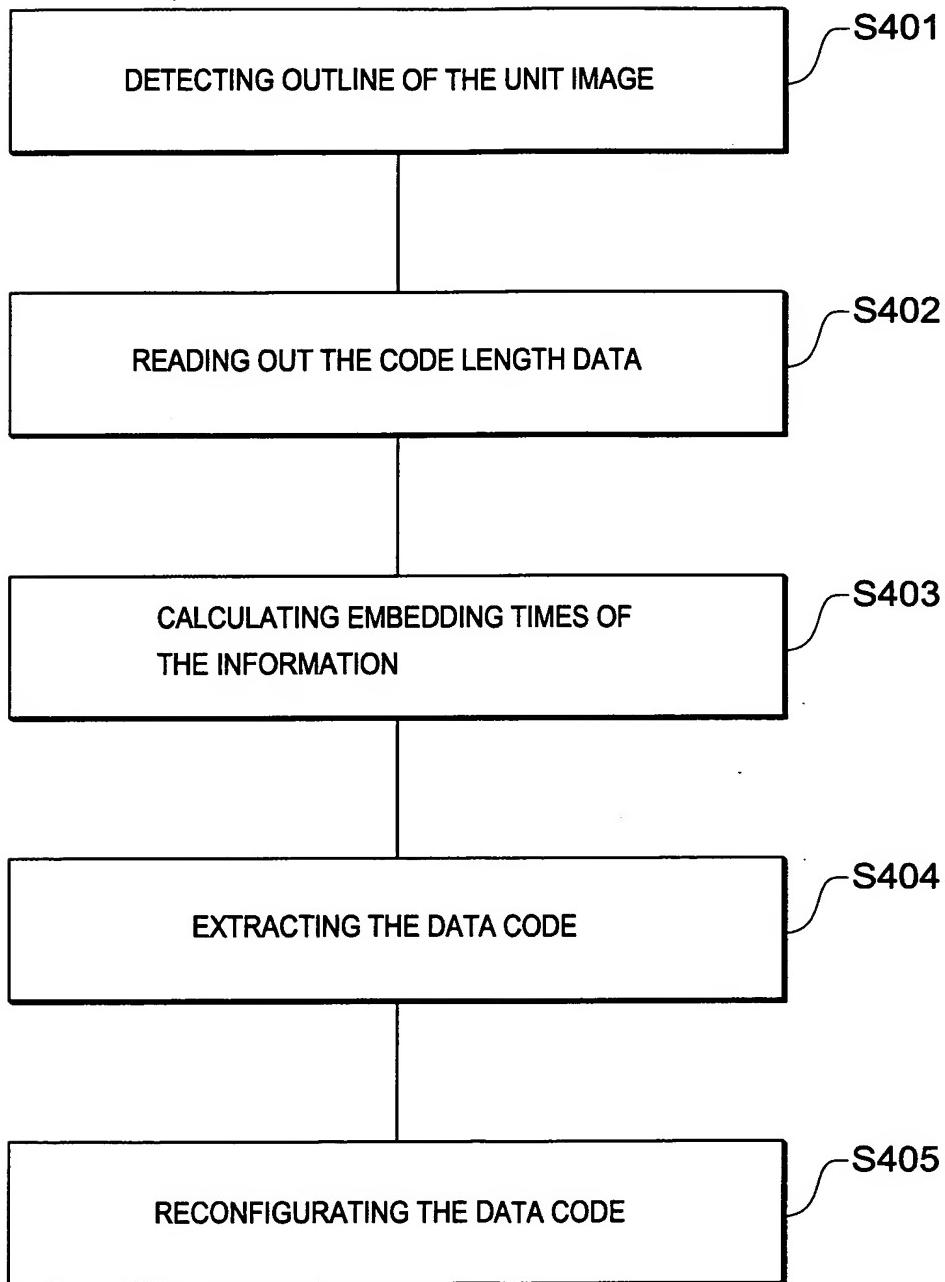


FIG. 19

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EMBEDDING BIT COLUMN UNIT IMAGE
REPRESENTATION CODE LENGTH

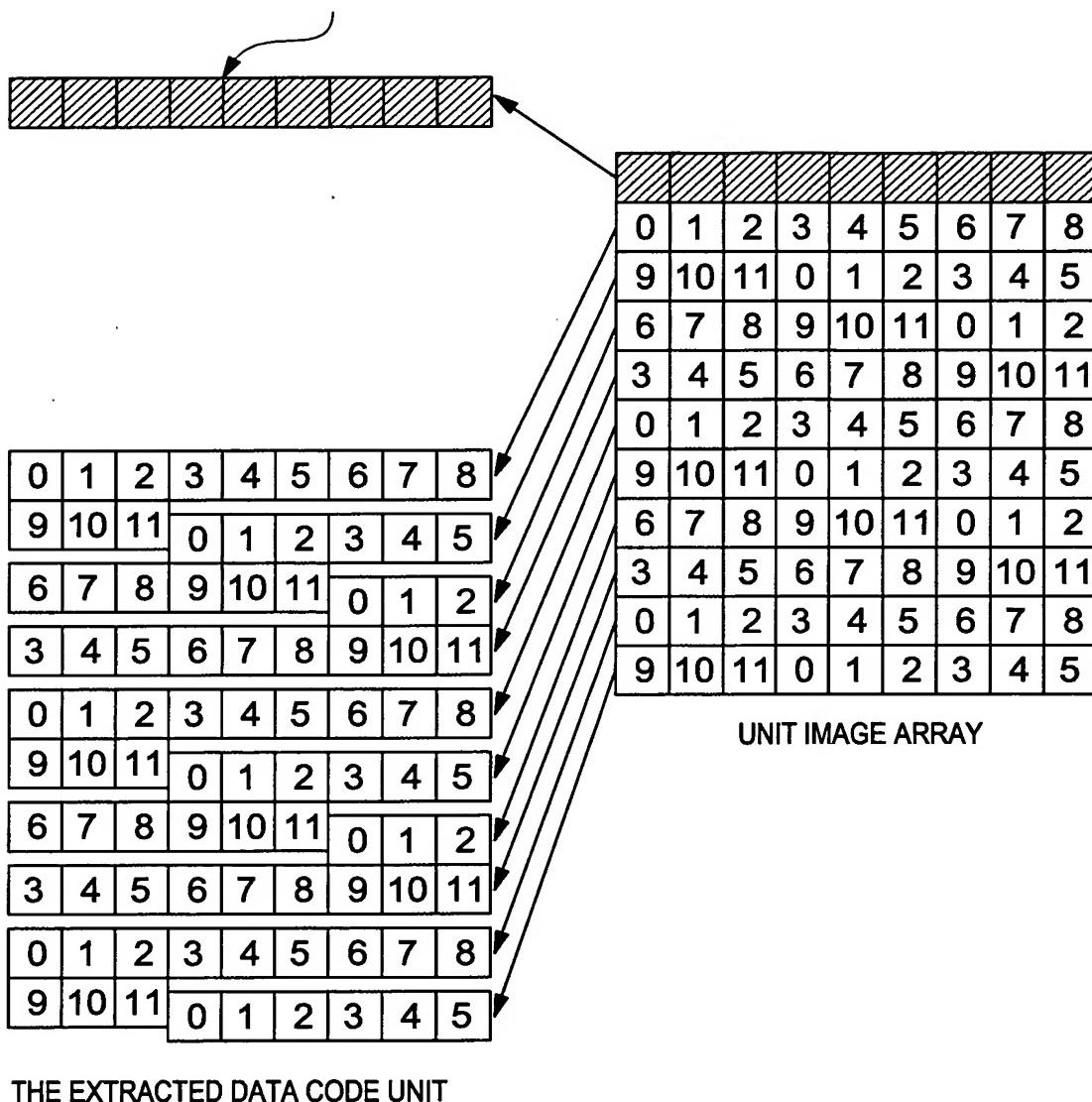


FIG. 20

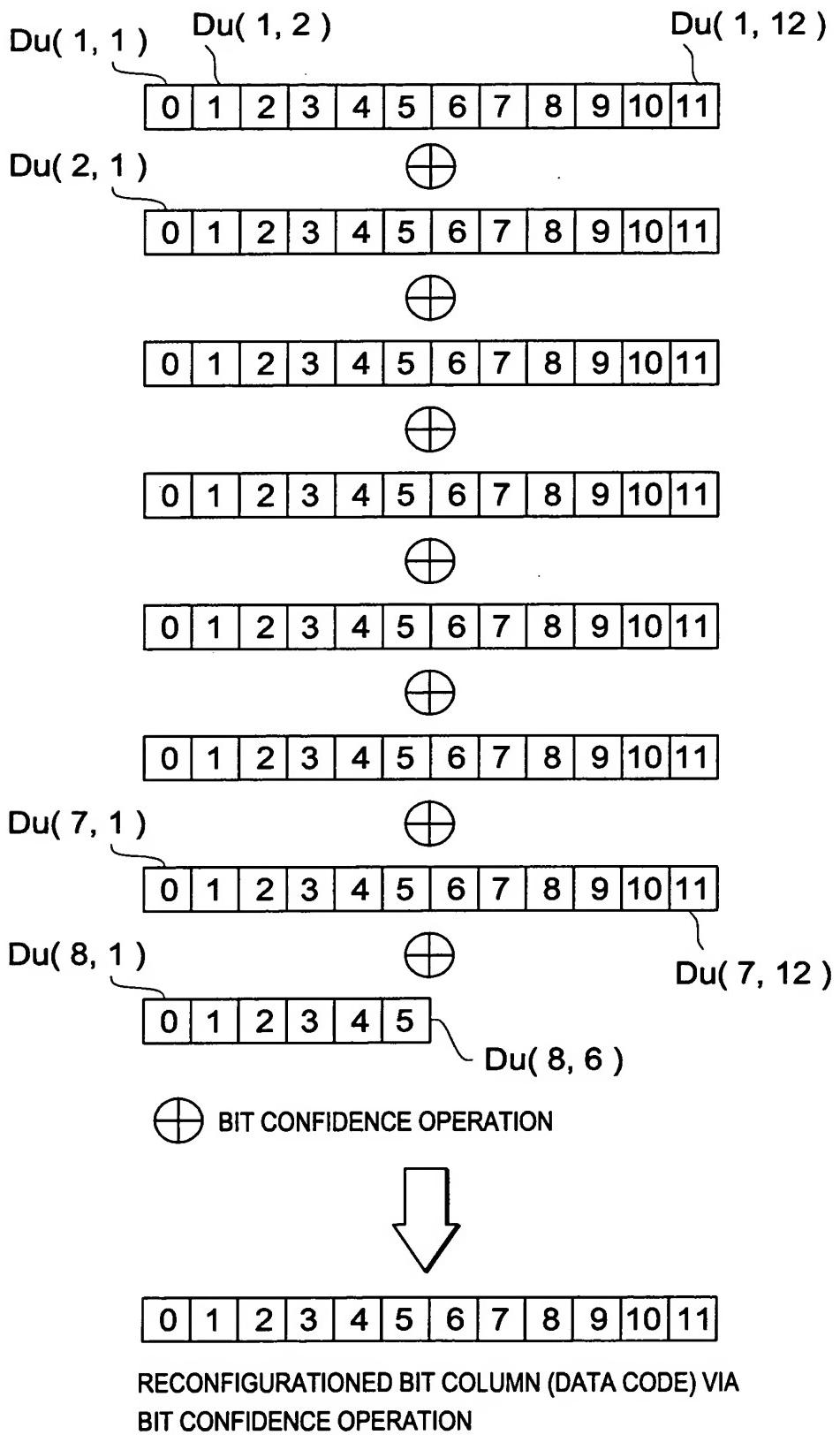


FIG. 21

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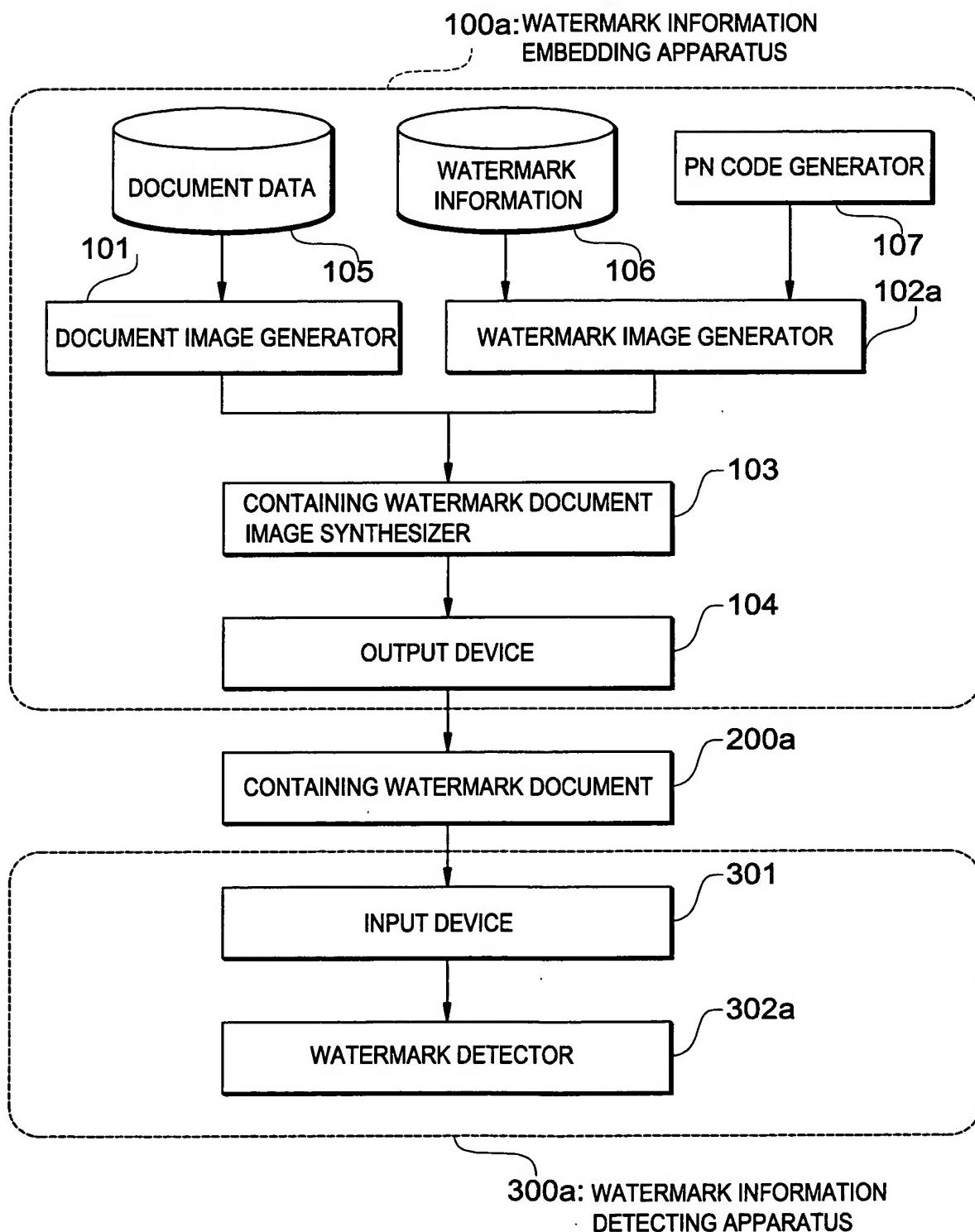


FIG. 22

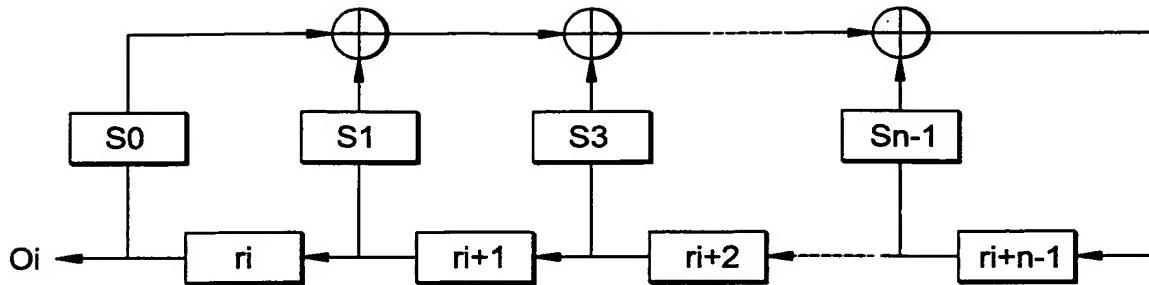


FIG. 23

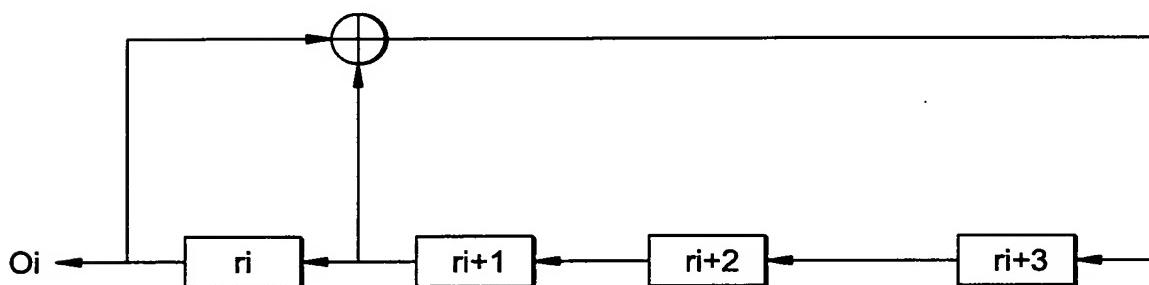


FIG. 24

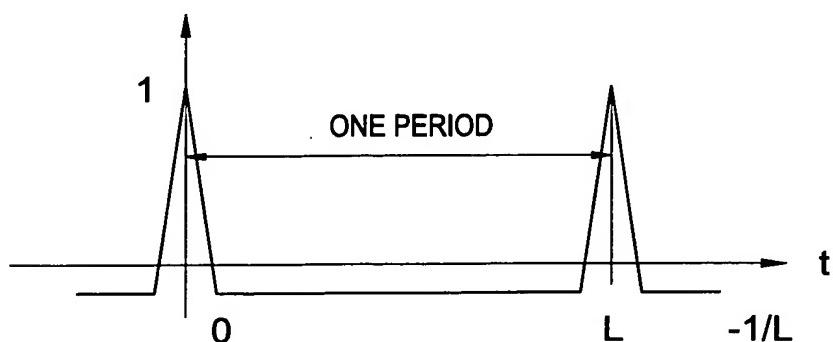


FIG. 25

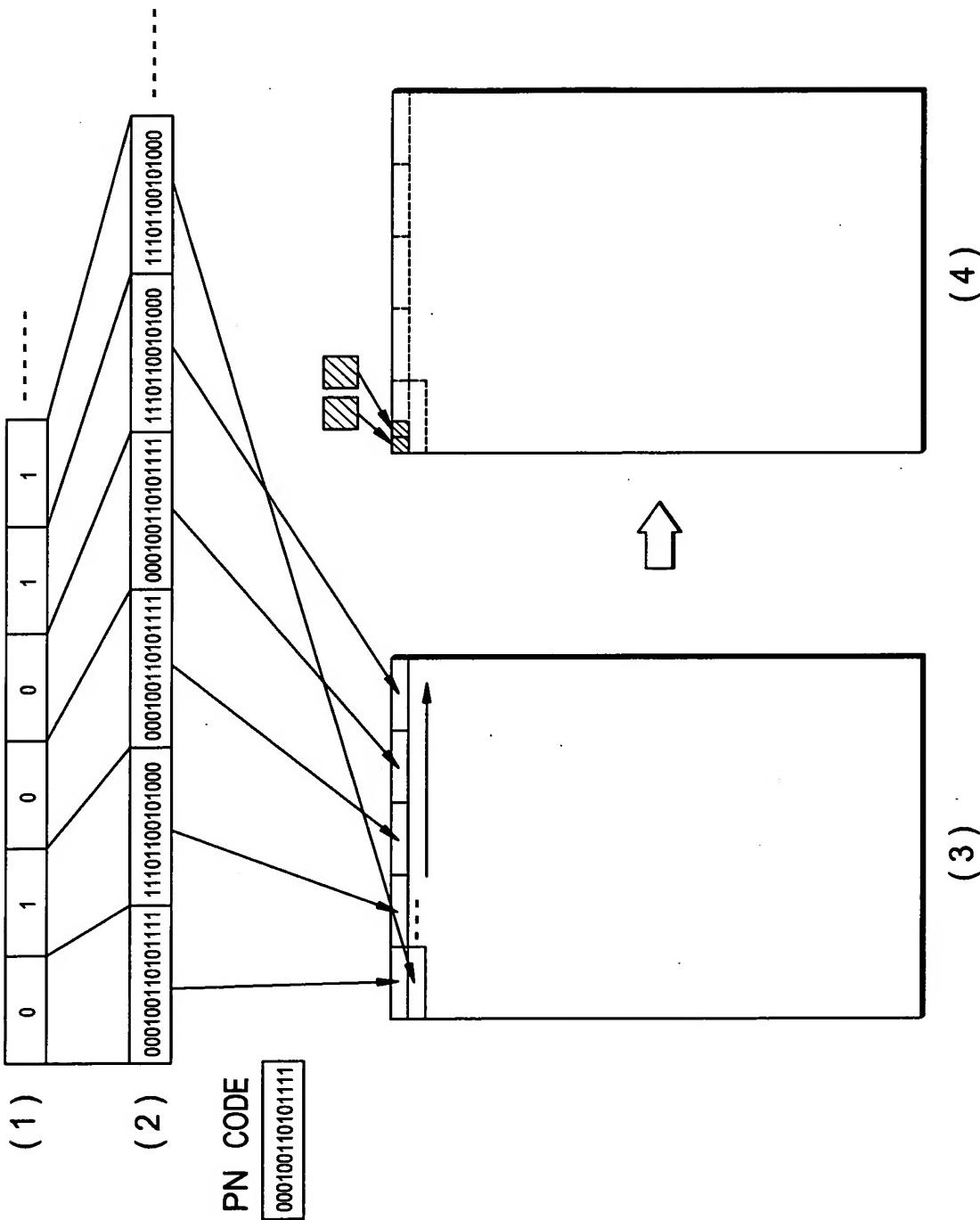


FIG. 26

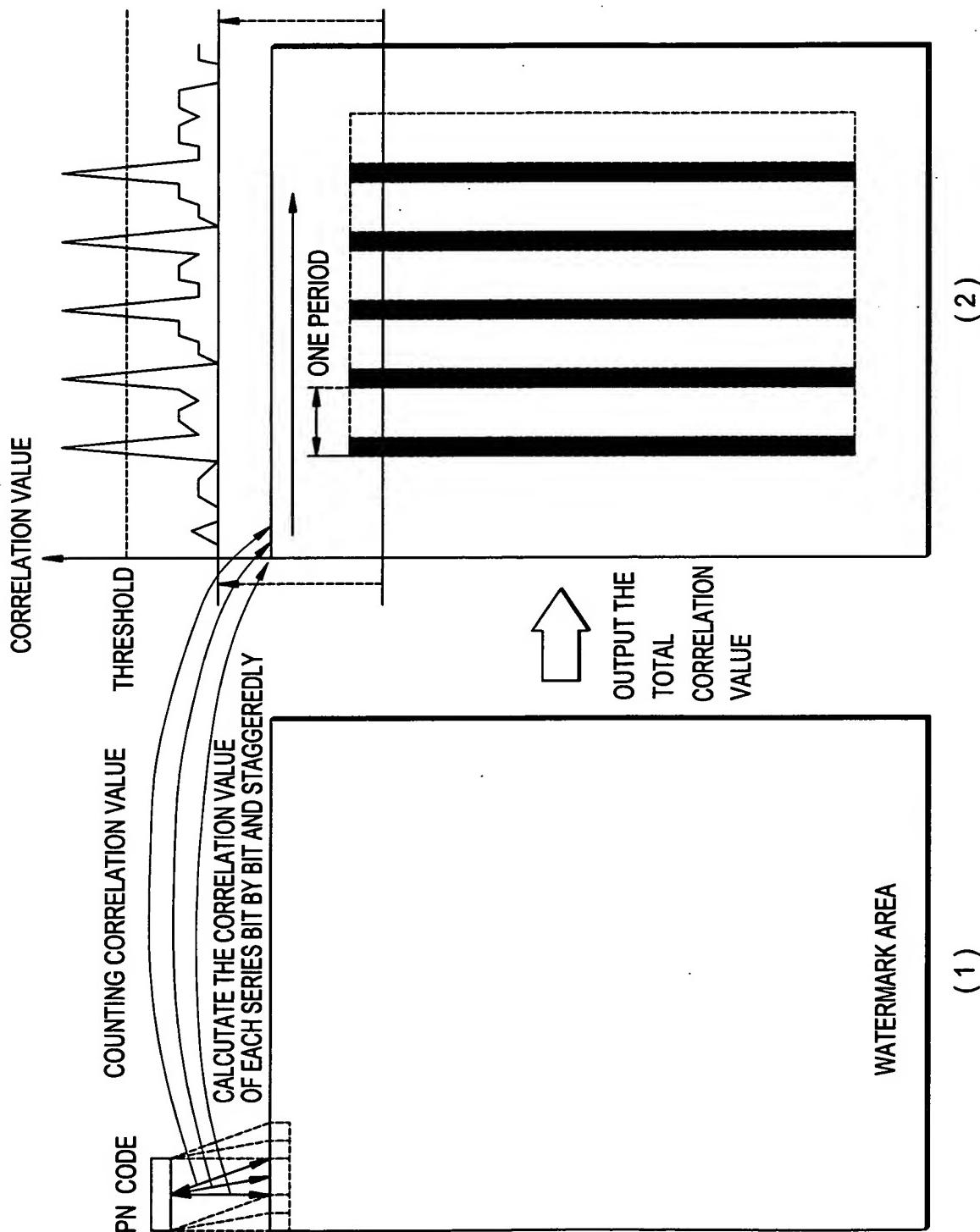


FIG. 27

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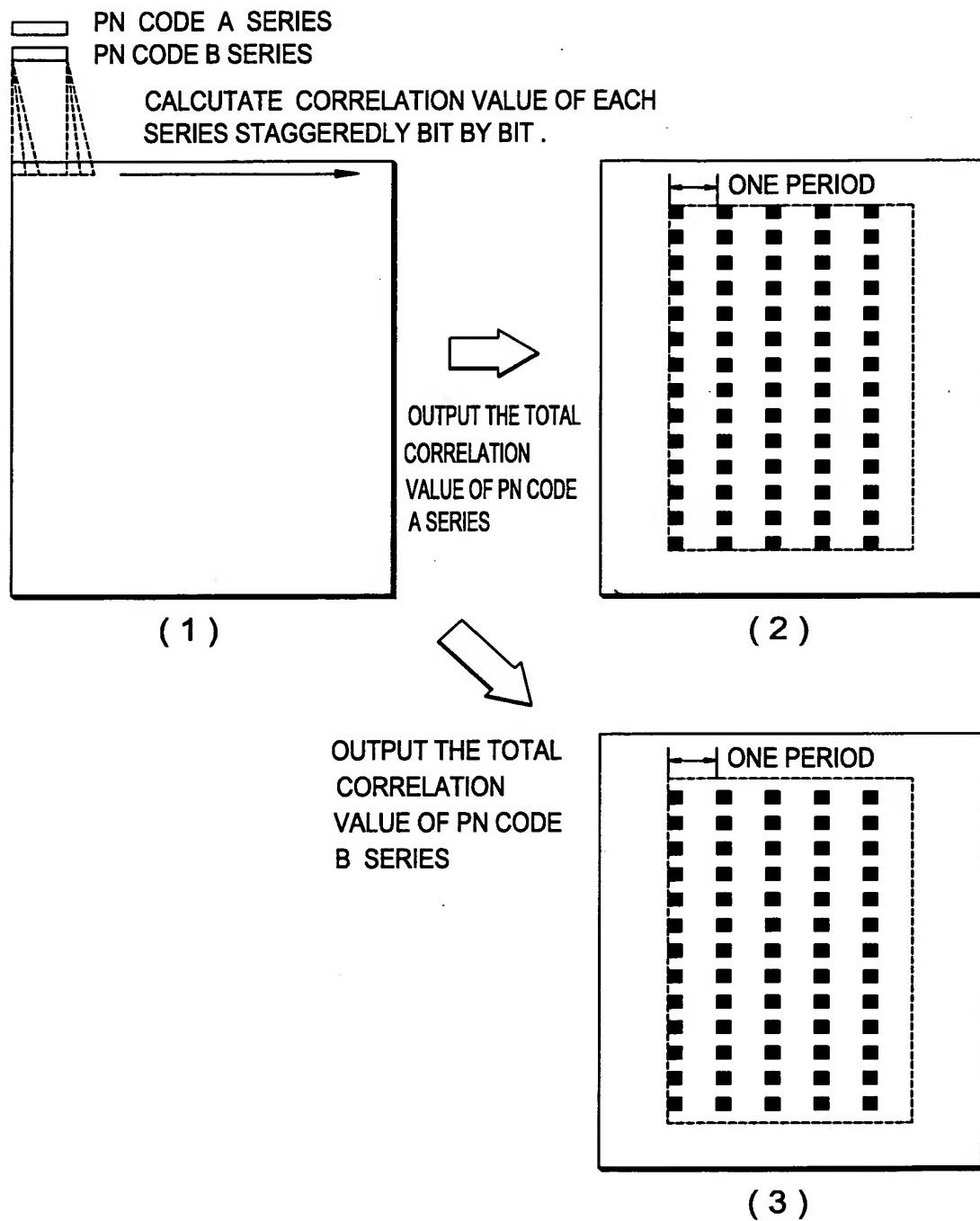


FIG.28

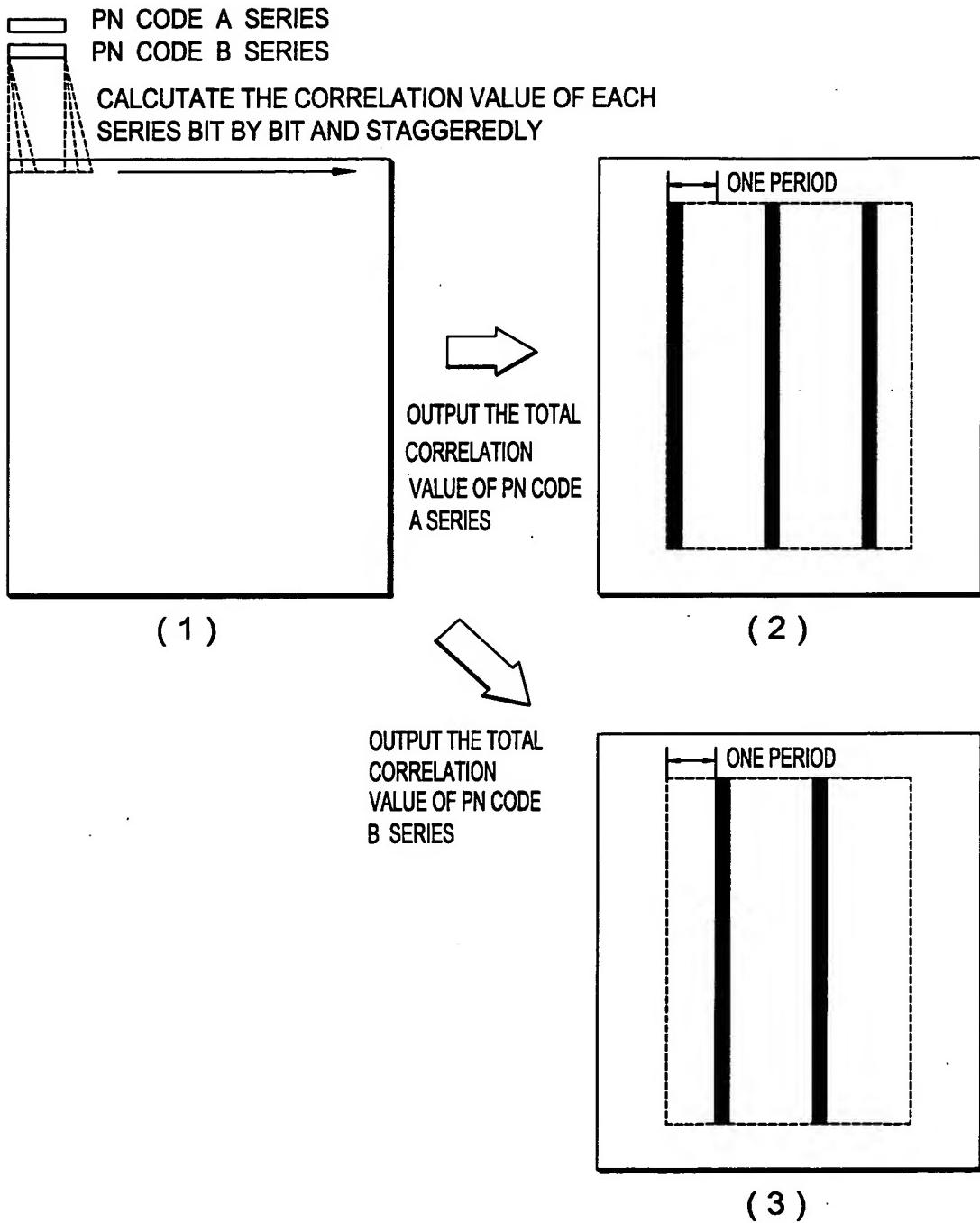


FIG. 29

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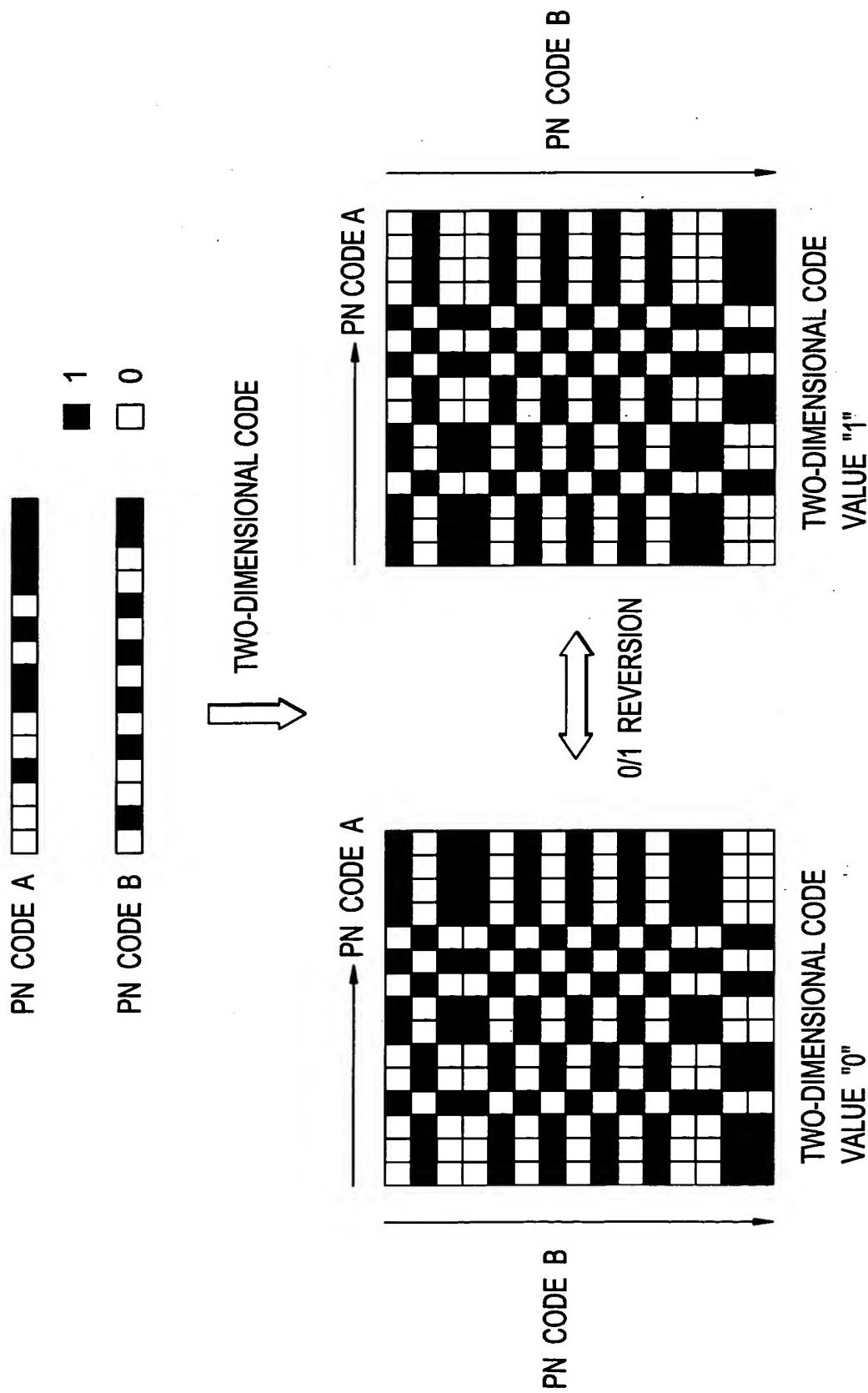
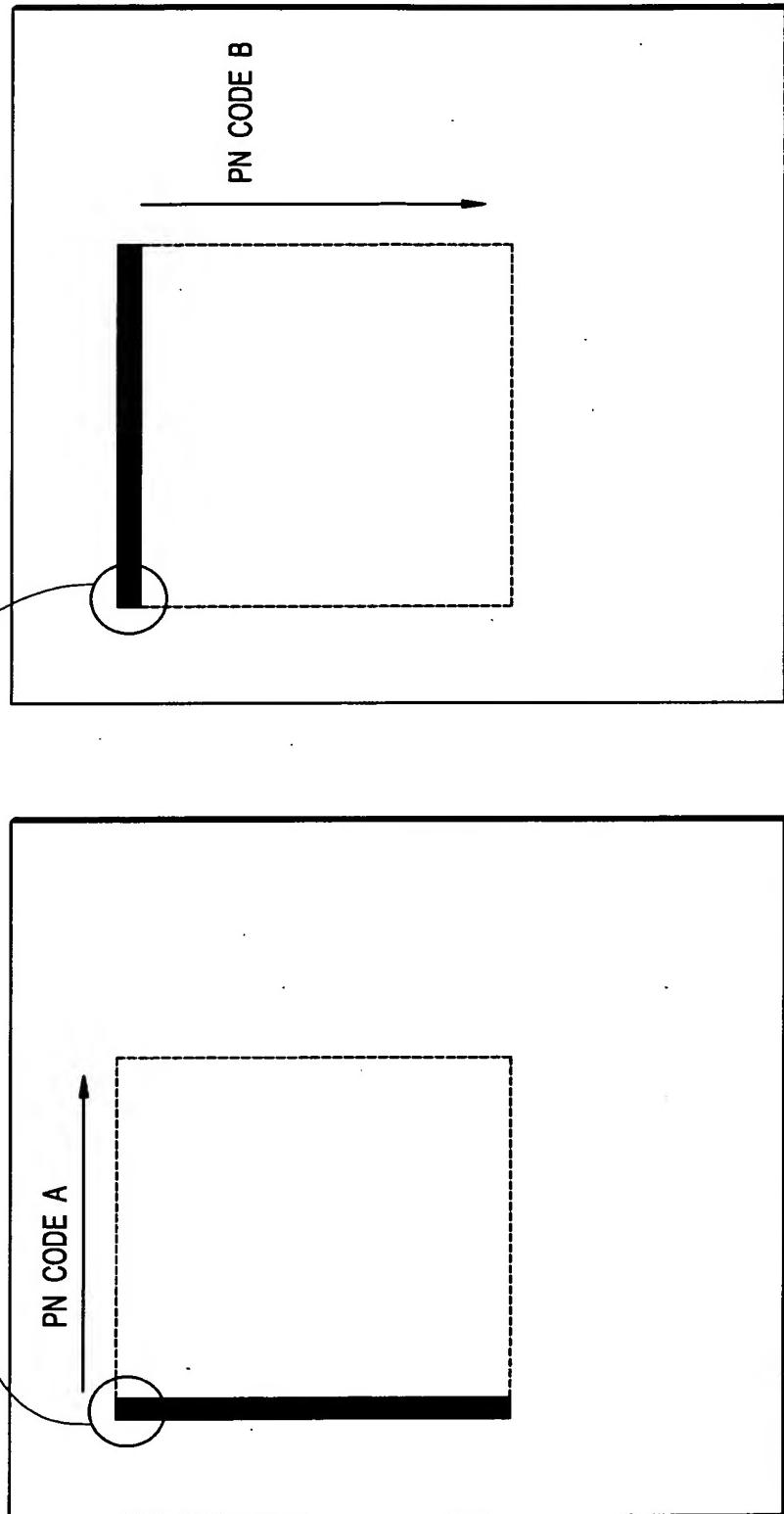


FIG. 30

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POINTS OF INTERSECTION OF SUCH CONTINUOUS PEAK CORRELATION VALUES ARE
THE VERTEXES OF THE TWO-DIMENSIONAL PN CODE SEQUENCE.



CORRELATION VALUES CALCULATED IN
THE VERTICAL DIRECTION BY PN
CORRELATION VALUES CALCULATED IN
THE HORIZONTAL DIRECTION BY PN

FIG. 31

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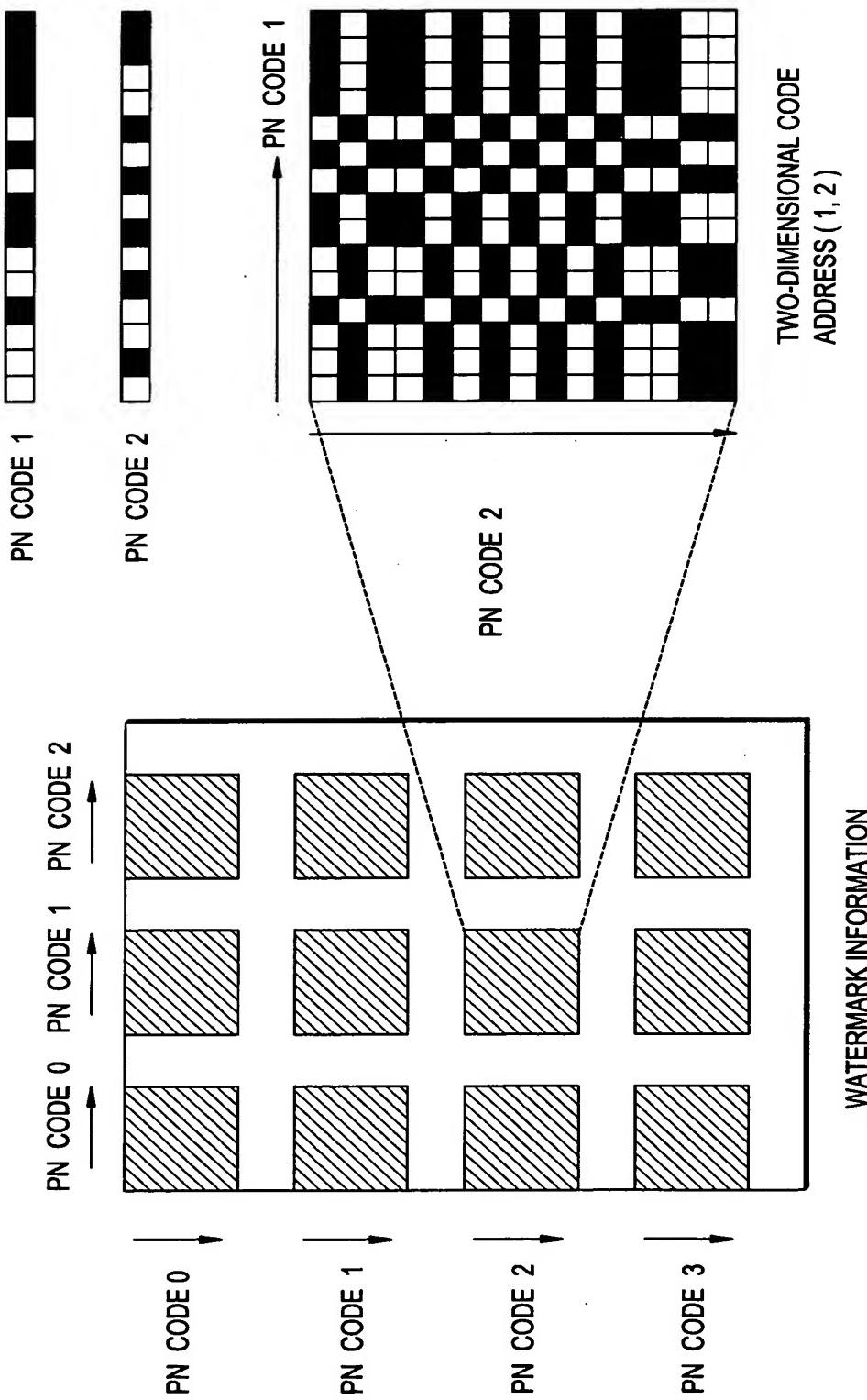


FIG. 32

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PN CODE A 

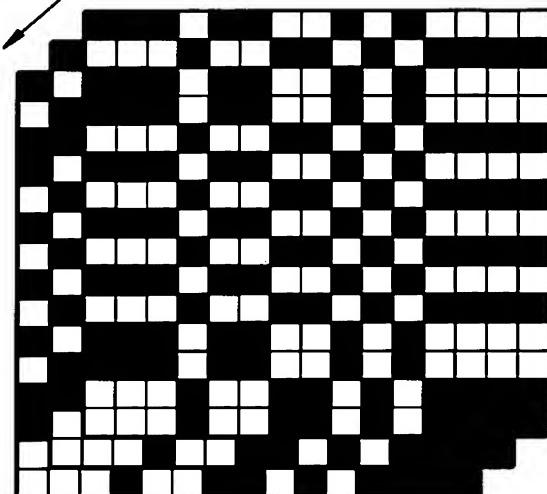
PN CODE B  1
 0

PN CODE C 



THREE-DIMENSIONAL CODE

PN CODE C → PN CODE A



↓
PN CODE B

THREE-DIMENSIONAL CODE

FIG. 33